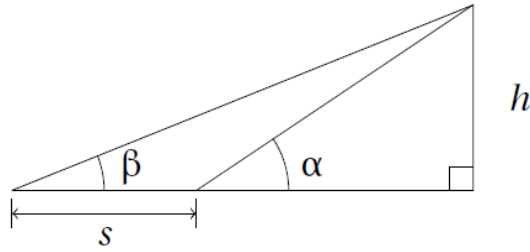


Math 1060 Chapter 2 Worksheet

1. Find the exact value of the cosine and sine of the angle $\theta = \frac{3\pi}{2}$.
2. Find the exact value of the cosine and sine of the angle $\theta = -\frac{5\pi}{6}$.
3. If $\cos(\theta) = \frac{45}{53}$ with θ in Quadrant IV, what is $\sin(\theta)$?
4. If $\sin(\theta) = -0.42$ and $\pi < \theta < \frac{3\pi}{2}$, what is $\cos(\theta)$?
5. Find all of the angles which satisfy the equation $\sin(\theta) = -\frac{\sqrt{3}}{2}$.
6. Suppose $\sin(\theta) = -0.783$ with θ in Quadrant III. Find the value of $\cot(\theta)$. Round your answer to three decimal places.

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7. Find h in terms of α , β and s .



8. Verify the identity. Assume that all quantities are defined.

$$\csc(\theta) - \cot(\theta) = \frac{\sin(\theta)}{1 + \cos(\theta)}$$

9. Find the exact value of $\sin\left(\frac{5\pi}{6}\right)$.

10. Find the exact value of $\cos(330^\circ)$.

11. Find the exact value of $\tan(135^\circ)$.